

U.S. Section, PIANC will host
The Annual General Assembly
in Charleston, South Carolina
May 9 – 12, 2005



Announcing
U.S. Section, PIANC Technical Workshops
on
Passing Vessel Issues
and
Wetlands Restoration

At the Portland Marriott Downtown Hotel

Portland, Oregon
April 29 – May 1, 2003



[Http://www.iwr.usace.army.mil/PIANC](http://www.iwr.usace.army.mil/PIANC)

Environmental, Engineering and Safety Issues of Passing Vessels

The effects of moving vessels have become increasingly an issue of concern in designing and managing our navigable waterways. The latest efforts and research regarding the effects passing navigation vessels have on safety, engineering design and ecological impacts will be presented. This workshop will provide a forum for:

1. International discussion of state-of-the-art methodologies, models, and measurement techniques;
2. Definition of research gaps; and
3. Identification of areas of collaboration and potential stakeholders.

The following topics will be discussed:

- Wave hydrodynamics for various vessel types
- Effects of vessel operation on wave characteristics
- Bank erosion and bank protection from passing vessels
- Sediment resuspension and bed scour from vessel-generated waves and currents and propeller jets
- Wave-structure interactions
- Effects of drawdown on shallow-water habitat and moored vessels
- People safety in shallow water recreational areas adjacent to navigation channels

Ecological Engineering Guidelines for Wetland Restoration-A Guide for Navigation Infrastructure

The conflict between navigation systems and wetlands is a significant problem on essentially all navigation infrastructure. The loss of wetlands through the construction of locks ,dams, port authority maintenance and placement of dredged material resulting from channels, must be considered as part of operations and maintenance of navigation system networks. This workshop will provide a forum for:

1. International discussion of state-of- the science methods for wetland restoration
2. Findings of the PIANC working group regarding wetland restoration.
3. Significant research gaps; and
4. Identification of areas of collaboration and potential stakeholders

The following topics will be discussed:

- Importance of a strategic plan
- Site characterization and evaluation
- Ecological functions of wetland habitats
- Design of the wetland
- Site construction of wetland restoration
- Planning the management of wetland sites